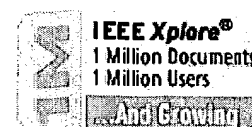


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Applications and the Internet, 2002. (SAINT 2002). Proceedings. 2002 Symposium on , 28 Jan.-1 Feb. 2002

Pages:230 - 237

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# 1 [Caching: A self-managing data cache for edge-of-network web applications](#)

Khalil Amiri, Sanghyun Park, Renu Tewari

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**Full text available: pdf(340.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Database caching at proxy servers enables dynamic content to be generated at the edge of the network, thereby improving the scalability and response time of web applications. The scale of deployment of edge servers coupled with the rising costs of their administration demand that such caching middleware be adaptive and self-managing. To achieve this, a cache must be dynamically populated and pruned based on the application query stream and access pattern. In this paper, we describe such a cache ...

**Keywords:** dynamic content, e-commerce, semantic caching

# 2 [ObjectGlobe: Ubiquitous query processing on the Internet](#)

R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1Full text available: pdf(251.44 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

**Keywords:** Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

# 3 [Papers: Information visualization: Parallel bargrams for consumer-based information exploration and choice](#)

Kent Wittenburg, Tom Lanning, Michael Heinrichs, Michael Stanton

November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology**

Full text available:  pdf(1.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we introduce multidimensional visualization and interaction techniques that are an extension to related work in parallel histograms and dynamic querying. Bargrams are, in effect, histograms whose bars have been tipped over and lined up end-to-end. We discuss affordances of parallel bargrams in the context of systems that support consumer-based information exploration and choice based on the attributes of the items in the choice set. Our tool called EZChooser has enabled a number of ...

**Keywords:** Information visualization, decision support, e-commerce, electronic shopping, internet, multidimensional visualization

#### 4 [Early user---system interaction for database selection in massive domain-specific online environments](#)

Jack G. Conrad, Joanne R. S. Claussen

January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available:  pdf(845.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

**Keywords:** Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

#### 5 [Interoperation support for electronic business](#)

Jian Yang, Mike P. Papazoglou

June 2000 **Communications of the ACM**, Volume 43 Issue 6

Full text available:  pdf(156.43 KB)  html(47.63 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 6 [A survey of approaches to automatic schema matching](#)

Erhard Rahm, Philip A. Bernstein

December 2001 **The VLDB Journal – The International Journal on Very Large Data Bases**, Volume 10 Issue 4


Full text available:  pdf(196.22 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Schema matching is a basic problem in many database application domains, such as data integration, E-business, data warehousing, and semantic query processing. In current implementations, schema matching is typically performed manually, which has significant limitations. On the other hand, previous research papers have proposed many techniques to achieve a partial automation of the match operation for specific application domains. We present a taxonomy that covers many of these existing approach ...

**Keywords:** Graph matching, Machine learning, Model management, Schema integration, Schema matching

#### 7 [Context-aware Web Information Systems](#)

Aleksander Binemann-Zdanowicz, Roland Kaschek, Klaus-Dieter Schewe, Bernhard Thalheim  
January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31**

Full text available:  pdf(413.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Apart from completeness usability, performance and maintainability are the key quality aspects for Web information systems. Considering usability as key implies taking usage processes into account right from the beginning of systems development. Context-awareness appears as a promising idea for increasing usability of Web Information Systems. In the present paper we propose an approach to context-awareness of Web Information Systems that systematically distinguishes among the various important k ...

**Keywords:** SiteLang, Web Information Systems, Web services, context-aware information systems, media objects

8 On site: A practical approach for implementing e-commerce programs in business schools

Lloyd W. Bartholome, David H. Olsen  
January 2002 **Communications of the ACM**, Volume 45 Issue 1

Full text available:  pdf(64.16 KB)  html(16.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Ignoring the 'e' component in business education does a great disservice to students preparing for a career in business.

9 Efficiently publishing relational data as XML documents

Jayavel Shanmugasundaram, Eugene Shekita, Rimon Barr, Michael Carey, Bruce Lindsay, Hamid Pirahesh, Berthold Reinwald  
September 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 2-3

Full text available:  pdf(216.67 KB) Additional Information: [full citation](#), [abstract](#), [citings](#), [index terms](#)

XML is rapidly emerging as a standard for exchanging business data on the World Wide Web. For the foreseeable future, however, most business data will continue to be stored in relational database systems. Consequently, if XML is to fulfill its potential, some mechanism is needed to publish relational data as XML documents. Towards that goal, one of the major challenges is finding a way to efficiently structure and tag data from one or more tables as a hierarchical XML document. Different alterna ...

**Keywords:** Publishing, Relational databases, XML

10 Laws and applications: Preserving privacy when preference searching in e-commerce

Rhys Smith, Jianhua Shao  
October 2003 **Proceeding of the ACM workshop on Privacy in the electronic society**

Full text available:  pdf(258.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The idea of using user preferences to assist with information filtering and with providing the most "relevant" answers to queries has recently received some attention from the research community. This has resulted in the proposition of several frameworks for formulating preferences and their direct embedding into relational query languages. In this paper we discuss major exploitation issues and privacy concerns inherent in the basic paradigm used by these proposed approaches when used with e-bus ...

**Keywords:** e-commerce, exploitation, privacy, user preferences

### 11 Research sessions: Web, XML and IR: An interactive clustering-based approach to integrating source query interfaces on the deep Web

Wensheng Wu, Clement Yu, AnHai Doan, Weiyi Meng

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(227.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

An increasing number of data sources now become available on the Web, but often their contents are only accessible through query interfaces. For a domain of interest, there often exist many such sources with varied coverage or querying capabilities. As an important step to the integration of these sources, we consider the integration of their query interfaces. More specifically, we focus on the crucial step of the integration: accurately matching the interfaces. While the integration of query in ...

### 12 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available:  pdf(213.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

**Keywords:** Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

### 13 Information technology and physical space

Henry C. Lucas

November 2001 **Communications of the ACM**, Volume 44 Issue 11

Full text available:  pdf(122.14 KB)  html(42.79 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

### 14 Discovering critical edge sequences in E-commerce catalogs

Kaushik Dutta, Debra VanderMeer, Anindya Datta, Krithi Ramamritham

October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**

Full text available:  pdf(270.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web sites allow the collection of vast amounts of *navigational data* -- clickstreams of user traversals through the site. These massive data stores offer the tantalizing possibility of uncovering interesting patterns within the dataset. For e-businesses, always looking for an edge in the hyper-competitive online marketplace, this possibility is of particular interest. Of significant particular interest to e-businesses is the discovery of *Critical Edge Sequences* (CES), which denote f ...

**Keywords:** accuracy, approximation, critical edge sequence, web site performance, web usage analysis

**15 XML-enabled workflow management for e-services across heterogeneous platforms**

German Shegalov, Michael Gillmann, Gerhard Weikum

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**,  
Volume 10 Issue 1Full text available:  pdf(662.54 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Advanced e-services require efficient, flexible, and easy-to-use workflow technology that integrates well with mainstream Internet technologies such as XML and Web servers. This paper discusses an XML-enabled architecture for distributed workflow management that is implemented in the latest version of our Mentor-lite prototype system. The key asset of this architecture is an XML mediator that handles the exchange of business and flow control data between workflow and business-object servers on t ...

**Keywords:** Business processes, Information system interoperability, Internet e-services, Workflow management, XML/XSL

**16 Using a starfield visualization for analyzing product performance of online stores**

Juhnyoung Lee, Mark Podlaseck

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce**Full text available:  pdf(363.32 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** electronic commerce, marketing, merchandising, visualization

**17 Recovery guarantees for Internet applications**

Roger Barga, David Lomet, German Shegalov, Gerhard Weikum

August 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 3Full text available:  pdf(997.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Internet-based e-services require application developers to deal explicitly with failures of the underlying software components, for example web servers, servlets, browser sessions, and so forth. This complicates application programming, and may expose failures to end users. This paper presents a framework for an application-independent infrastructure that provides recovery guarantees and masks almost all system failures, thus relieving the application programmer from having to deal with these f ...

**Keywords:** Exactly-once execution, application recovery, communication protocols, interaction contracts

**18 Semantic interfaces and OWL tools: How to make a semantic web browser**

D. A. Quan, R. Karger

May 2004 **Proceedings of the 13th international conference on World Wide Web**Full text available:  pdf(484.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Two important architectural choices underlie the success of the Web: numerous, independently operated servers speak a common protocol, and a single type of client the Web browser provides point-and-click access to the content and services on these decentralized servers. However, because HTML marries content and presentation into a single representation, end users are often stuck with inappropriate choices made by the Web site designer of how to work with and view the content. RDF metadata on the ...

**Keywords:** bioinformatics, rdf, semantic web, user interface, web services

**19 B2B contract implementation using windows DNS**

Ning He, Zoran Milosevic

January 2001 **Australian Computer Science Communications**, Volume 23 Issue 6Full text available:  pdf(863.94 KB)Additional Information: [full citation](#), [abstract](#), [references](#) [Publisher Site](#)

This paper describes our implementation of a support infrastructure for electronic contracting --- an important ingredient of Business-to-Business (B2B) e-commerce. The paper first explains the main benefits of the new generation of Microsoft technologies - Windows Distributed interNet Applications Architecture (DNA) and BizTalk. This is followed by a detailed description of how we take advantage of the XML tools provided by these technologies - to implement our enterprise model of contracts. We ...

**Keywords:** BizTalk, XML-message, business contract**20 SCMP.com: strategic repositioning of a newspaper**

Ali Farhoomand, Eva Kwan

December 2000 **Proceedings of the twenty first international conference on Information systems**Full text available:  pdf(361.56 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

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